

What is claimed is:

1. A method for identifying agonists or antagonists to TR1 or TR2 comprising:
 - (a) contacting a candidate compound with TR1 or TR2 in the presence of labeled or unlabeled ligand TL2 or TL4 respectively; and
 - 5 (b) assessing the ability of said candidate compound to compete with TL2 or TL4 binding to TR1 or TR2 respectively.
2. The method of claim 1 in which TR1 or TR2 is on the surface of a host cell, on a cell membrane or on a solid support.
- 10 3. The method of claim 2 for identifying agonists which further includes determining whether the candidate compound affects a signal generated by TR1 or TR2 polypeptide at the surface of the cell, wherein a candidate compound which increases production of said signal is identified as an agonist.
- 15 4. An agonist identified by the method of claim 1, 2 or 3.
5. The method of claim 2 for identifying antagonists which further includes determining whether the candidate compound affects a signal generated by TR1 or TR2 polypeptide at the surface of the cell, wherein a candidate compound which diminishes production of said signal is identified as an antagonist.
- 20 6. An antagonist identified by the method of claim 1, 2, or 5.
- 25 7. A method for identifying agonists or antagonists to TL2 or TL4 comprising:
 - (a) contacting a candidate compound with TL2 or TL4 in the presence of labeled or unlabeled TR1 or TR2 respectively; and
 - (b) assessing the ability of said candidate compound to compete with TR1 or TR2 binding to TL2 or TL4 respectively.
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8. The method of claim 7 in which TL2 or TL4 is on the surface of a host cell, on a cell membrane or on a solid support.

5 9. The method of claim 8 for identifying agonists which further includes determining whether the candidate compound affects a signal generated by TL2 or TL4 polypeptide at the surface of the cell, wherein a candidate compound which increases production of said signal is identified as an agonist.

10 10. An agonist identified by the method of claim 9.

11. The method of claim 8 for identifying antagonists which further includes determining whether the candidate compound affects a signal generated by TL2 or TL4 polypeptide at the surface of the cell, wherein a candidate compound which diminishes production of said signal is identified as an antagonist.

15 12. An antagonist identified by the method of claim 11.